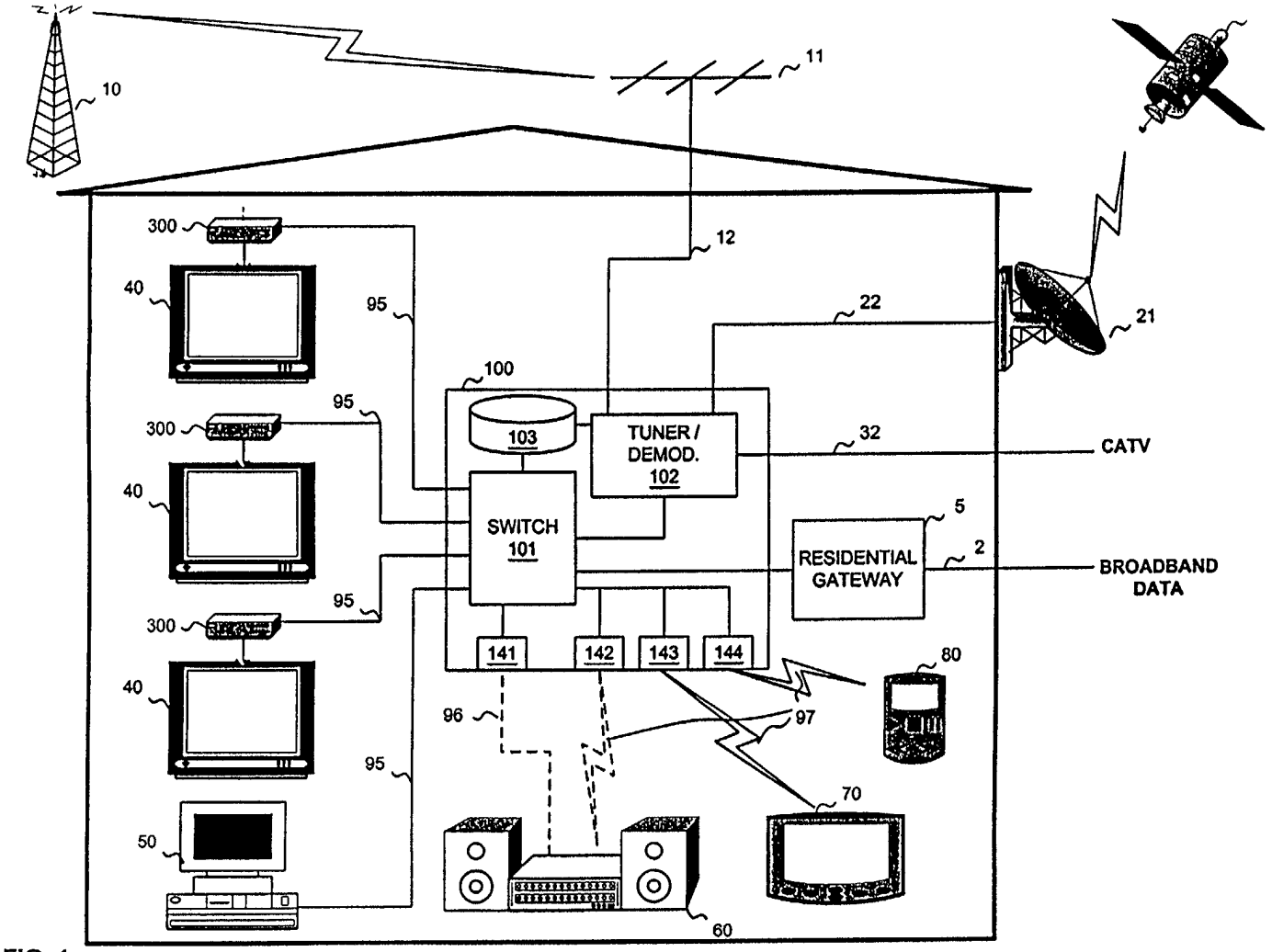

10
11
12
21
22
300
40
95
100
103
TUNER / DEMOD. 102
32
CATV
SWITCH 101
5
RESIDENTIAL GATEWAY
2
BROADBAND DATA
141
142
143
144
80
96
97
70
50
60

FIG. 1

Patent Application

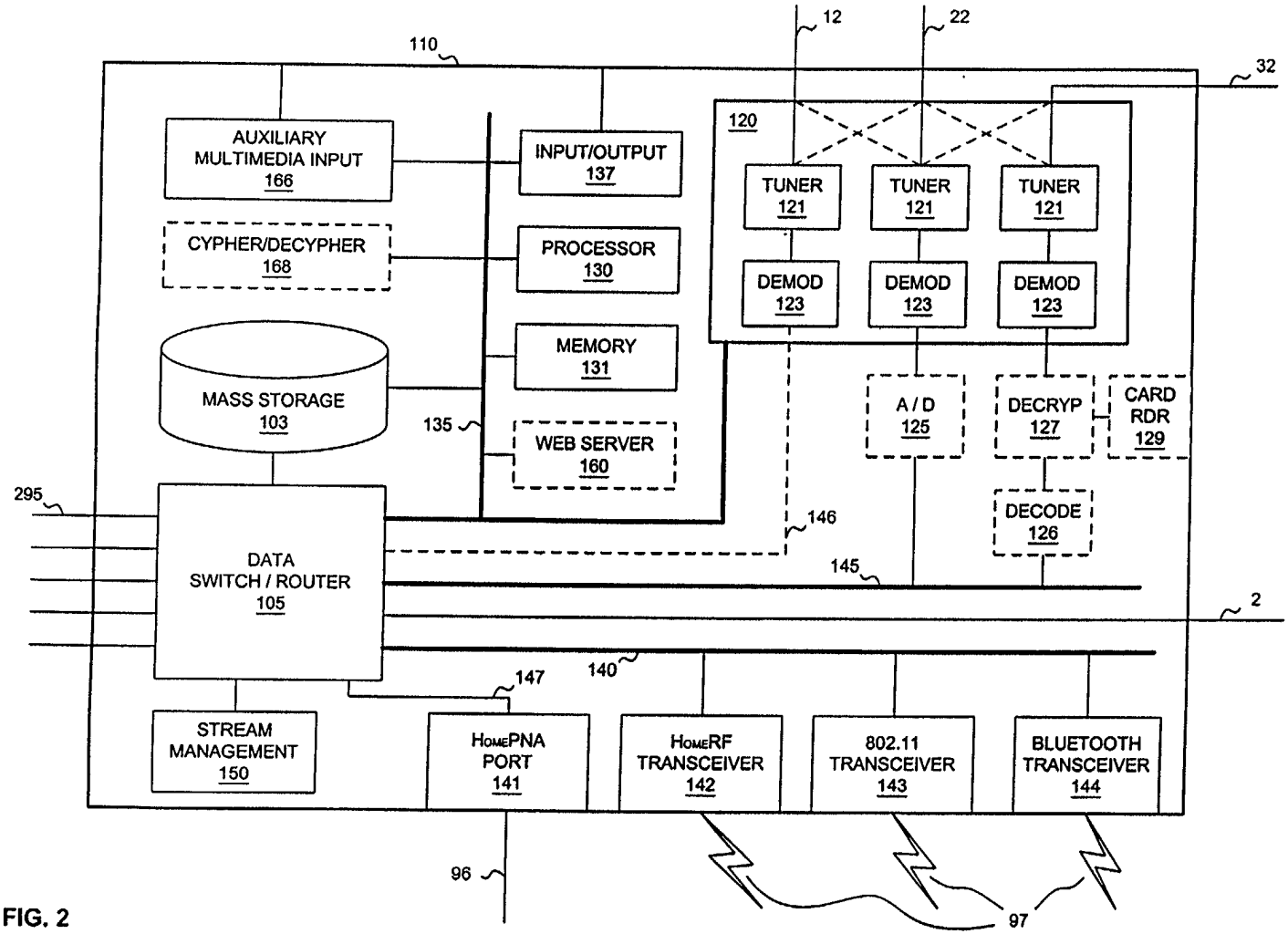


FIG. 2

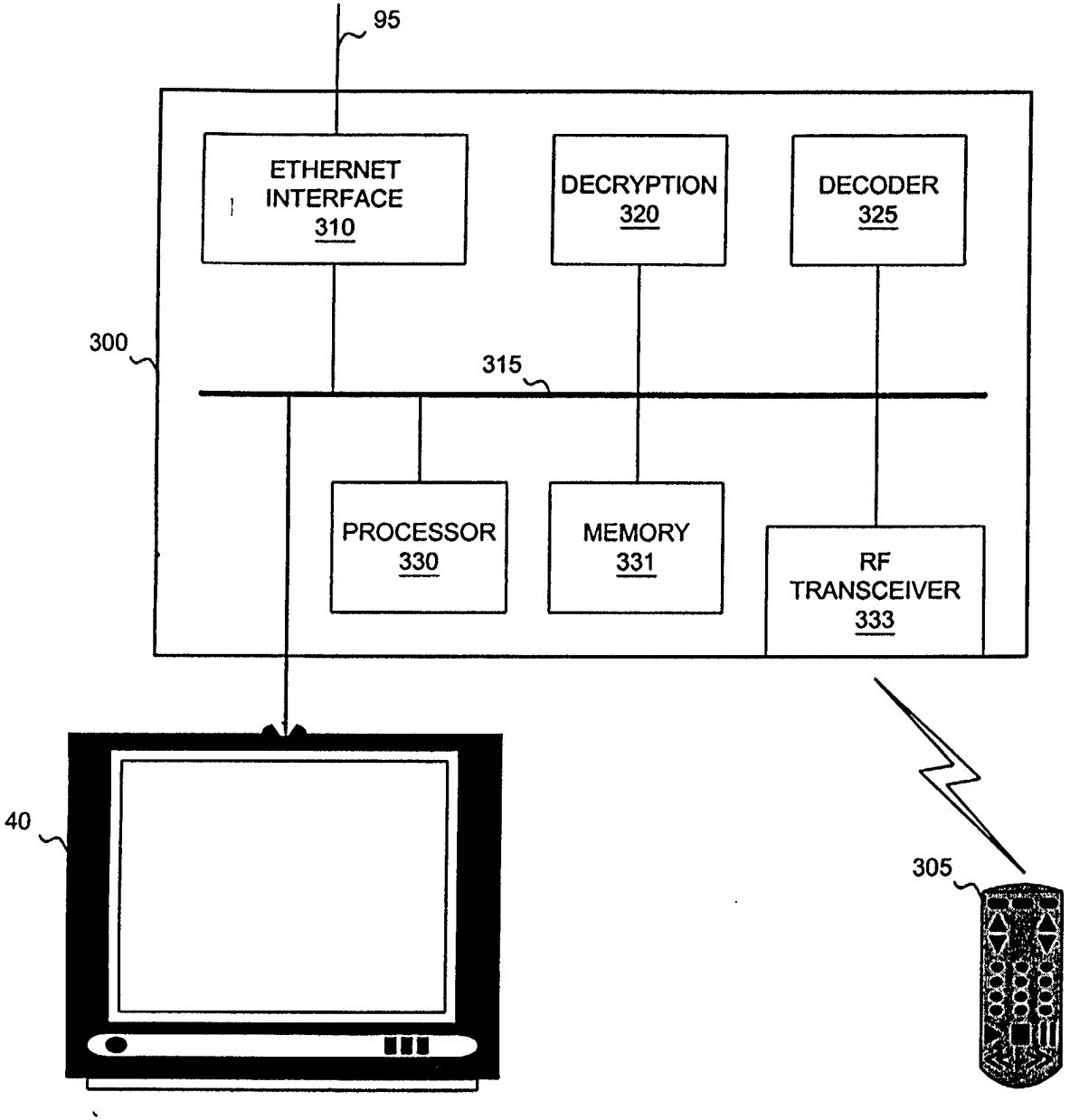

95
ETHERNET INTERFACE 310
DECRYPTION 320
DECODER 325
300
315
PROCESSOR 330
MEMORY 331
RF TRANSCEIVER 333
40
305

FIG. 3

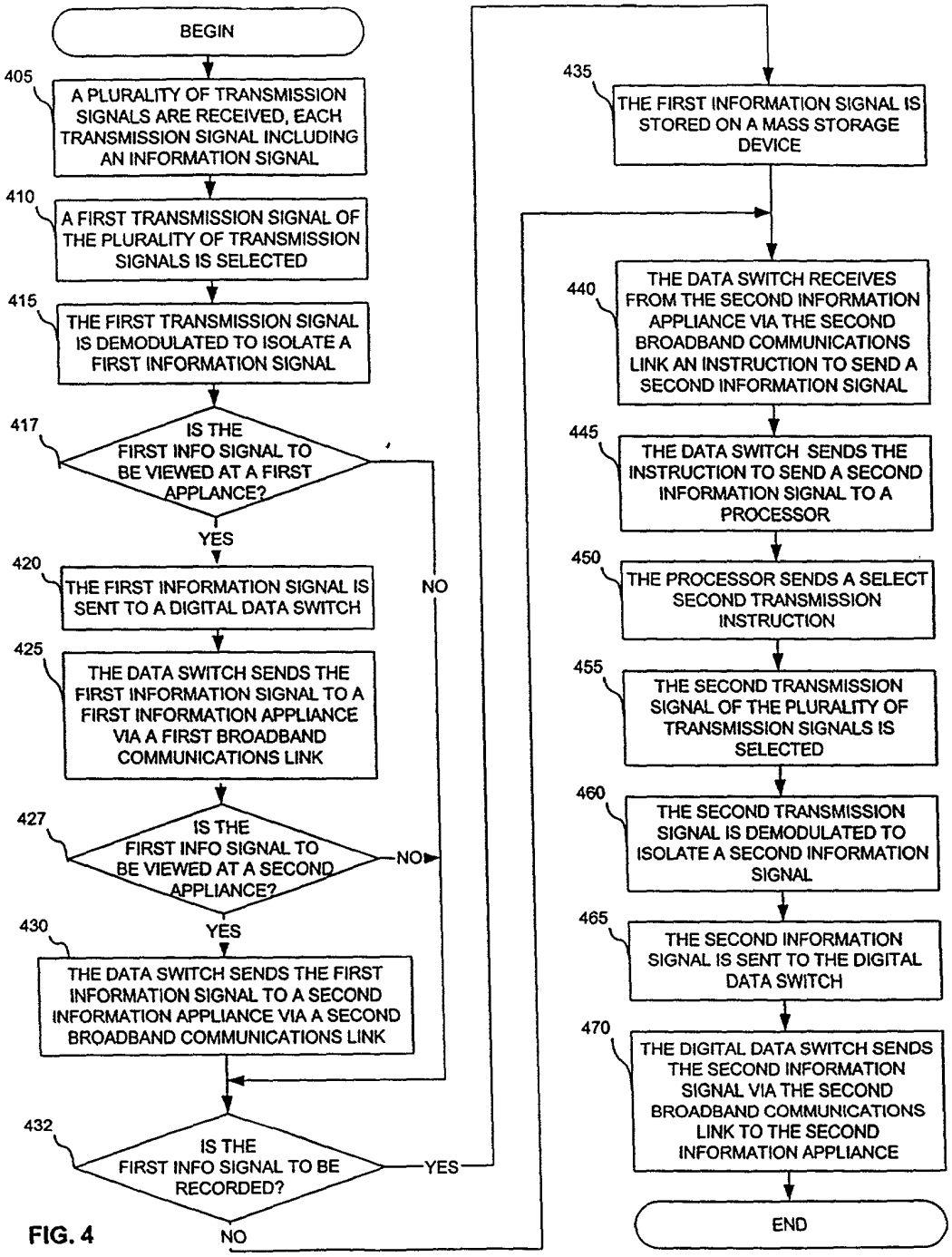
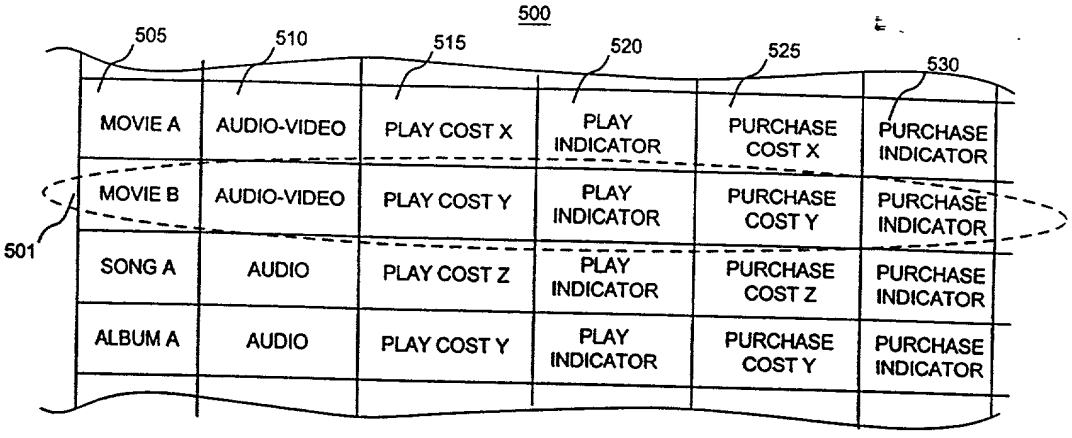
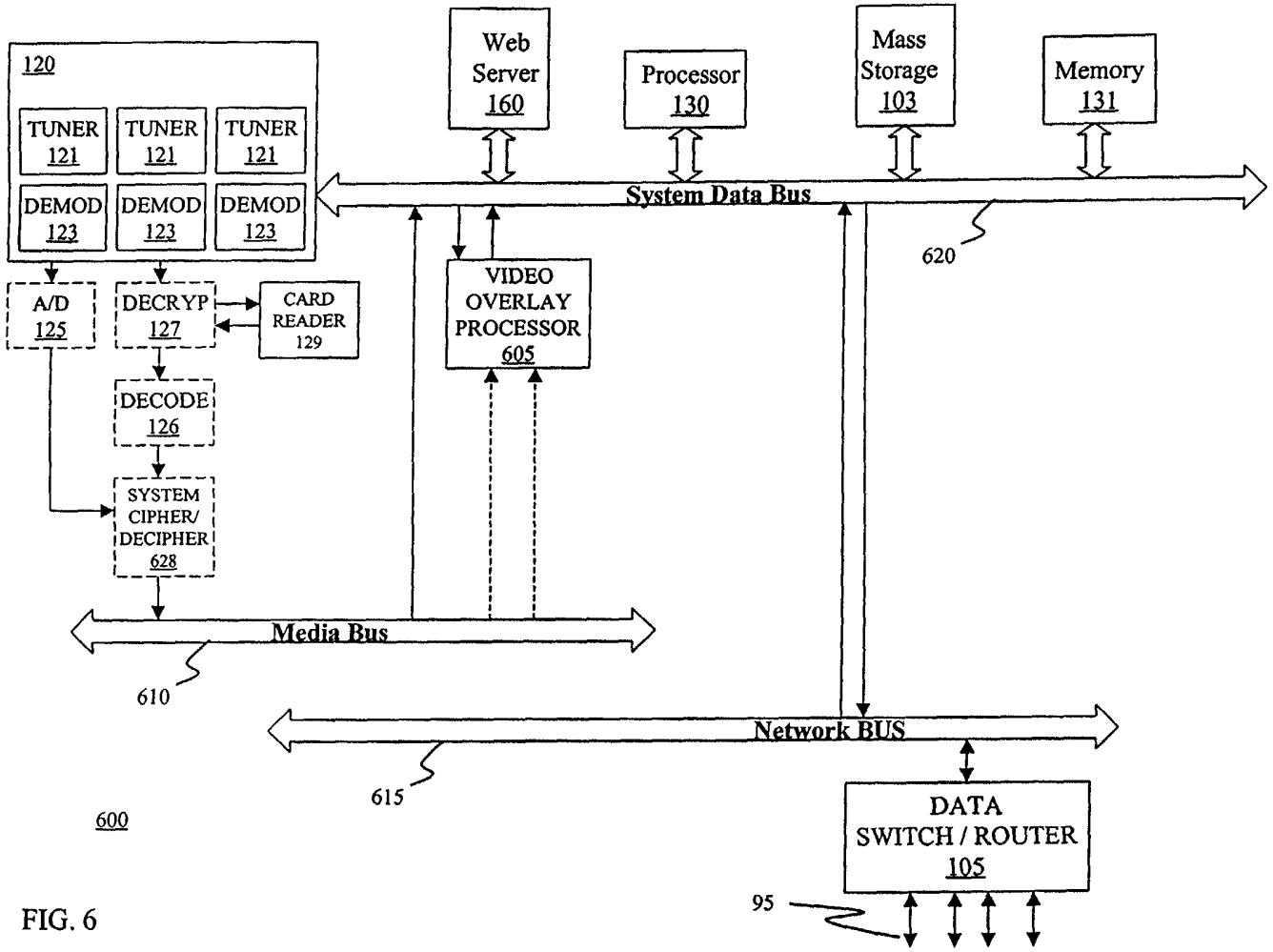

BEGIN
405
A PLURALITY OF TRANSMISSION SIGNALS ARE RECEIVED, EACH TRANSMISSION SIGNAL INCLUDING AN INFORMATION SIGNAL
410
A FIRST TRANSMISSION SIGNAL OF THE PLURALITY OF TRANSMISSION SIGNALS IS SELECTED
415
THE FIRST TRANSMISSION SIGNAL IS DEMODULATED TO ISOLATE A FIRST INFORMATION SIGNAL
417
IS THE FIRST INFO SIGNAL TO BE VIEWED AT A FIRST APPLIANCE?
YES
NO
420
THE FIRST INFORMATION SIGNAL IS SENT TO A DIGITAL DATA SWITCH
425
THE DATA SWITCH SENDS THE FIRST INFORMATION SIGNAL TO A FIRST INFORMATION APPLIANCE VIA A FIRST BROADBAND COMMUNICATIONS LINK
427
IS THE FIRST INFO SIGNAL TO BE VIEWED AT A SECOND APPLIANCE?
NO
YES
430
THE DATA SWITCH SENDS THE FIRST INFORMATION SIGNAL TO A SECOND INFORMATION APPLIANCE VIA A SECOND BROADBAND COMMUNICATIONS LINK
432
IS THE FIRST INFO SIGNAL TO BE RECORDED?
YES
NO
435
THE FIRST INFORMATION SIGNAL IS STORED ON A MASS STORAGE DEVICE
440
THE DATA SWITCH RECEIVES FROM THE SECOND INFORMATION APPLIANCE VIA THE SECOND BROADBAND COMMUNICATIONS LINK AN INSTRUCTION TO SEND A SECOND INFORMATION SIGNAL
445
THE DATA SWITCH SENDS THE INSTRUCTION TO SEND A SECOND INFORMATION SIGNAL TO A PROCESSOR
450
THE PROCESSOR SENDS A SELECT SECOND TRANSMISSION INSTRUCTION
455
THE SECOND TRANSMISSION SIGNAL OF THE PLURALITY OF TRANSMISSION SIGNALS IS SELECTED
460
THE SECOND TRANSMISSION SIGNAL IS DEMODULATED TO ISOLATE A SECOND INFORMATION SIGNAL
465
THE SECOND INFORMATION SIGNAL IS SENT TO THE DIGITAL DATA SWITCH
470
THE DIGITAL DATA SWITCH SENDS THE SECOND INFORMATION SIGNAL VIA THE SECOND BROADBAND COMMUNICATIONS LINK TO THE SECOND INFORMATION APPLIANCE
END

FIG. 4

FIG. 5


500
505
510
515
520
525
530
501
MOVIE A
AUDIO-VIDEO
PLAY COST X
PLAY INDICATOR
PURCHASE COST X
PURCHASE INDICATOR
MOVIE B
AUDIO-VIDEO
PLAY COST Y
PLAY INDICATOR
PURCHASE COST Y
PURCHASE INDICATOR
SONG A
AUDIO
PLAY COST Z
PLAY INDICATOR
PURCHASE COST Z
PURCHASE INDICATOR
ALBUM A
AUDIO
PLAY COST Y
PLAY INDICATOR
PURCHASE COST Y
PURCHASE INDICATOR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TUNER 121
TUNER 121
TUNER 121
DEMOD 123
DEMOD 123
DEMOD 123
A/D 125
DECRYP 127
CARD READER 129
DECODE 126
SYSTEM CIPHER/ DECIPHER 628
Web Server 160
Processor 130
Mass Storage 103
Memory 131
System Data Bus
620
VIDEO OVERLAY PROCESSOR 605
Media Bus
610
Network BUS
615
DATA SWITCH / ROUTER 105
95
600

FIG. 6

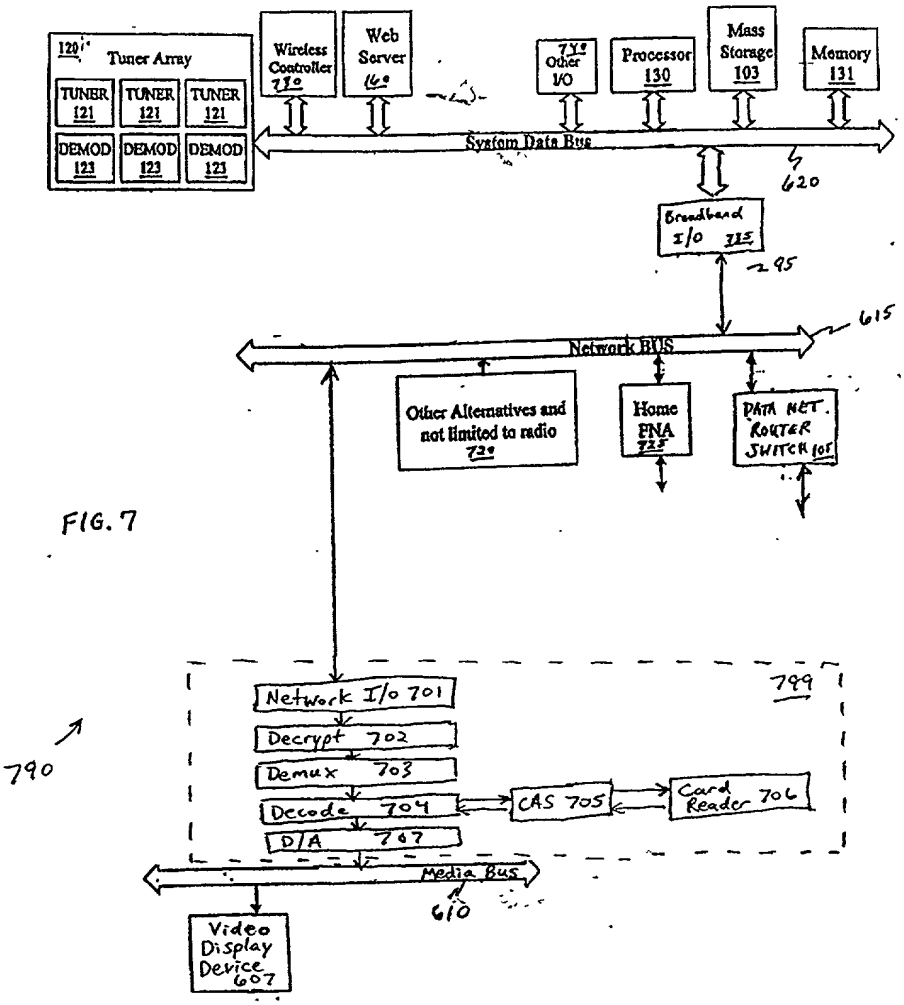
120
Tuner Array
TUNER 121
TUNER 121
TUNER 121
DEMOD 123
DEMOD 123
DEMOD 123
Wireless Controller 730
Web Server 140
730 Other I/O
Processor 130
Mass Storage 103
Memory 131
System Data Bus
620
Broadband I/O 735
295
615
Network BUS
Other Alternatives and not limited to radio 720
Home PNA 725
DATA NET. ROUTER SWITCH 101
790
799
Network I/O 701
Decrypt 702
Demux 703
Decode 704
CAS 705
Card Reader 706
D/A 707
Media Bus
610
Video Display Device 607

FIG. 7